AMENDMENTS TO THE CLAIM

IN THE CLAIMS:

A complete set of claims is provided below.

Please cancel Claims 1-3, 10-12, 18, and 19 without prejudice.

1.   (Canceled)

2.   (Canceled)

3.   (Canceled)

Please Enter

9/19/03

4.   (Currently Amended)   ~~The method of Claim 3~~ A method of reducing crosstalk between two signals generated by applying a first pulse and a second pulse to measure a parameter, wherein said first pulse and said second pulse are applied periodically at a first repetition rate defining a period, and wherein said first pulse is generated during a first interval in each period and said second pulse is generated during a second interval in each period, said first and second pulses producing first and second parametric signals responsive to said parameter, said first and second parametric signals being received by a detector which outputs a composite signal responsive to said first and second parametric signals, said method comprising:

applying a first demodulation signal to said composite signal to generate a first demodulated output signal, said first demodulation signal comprising at least one component having at least a first amplitude and a first phase;

applying a second demodulation signal to said composite signal to generate a second demodulated output signal, said second demodulation signal comprising at least one component having at least a second amplitude and a second phase;

lowpass filtering said first demodulated output signal to generate a first recovered output signal responsive to said first parametric signal;